Performance Data Sheet

AHA2445AXD

General Information

Model	AHA2445AXD	**Refrigerant**	R-12
Test Condition	ASHRAE	**Performance Test Voltage**	230V ~ 60HZ
Return Gas	32.2°C (90°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	**90**	**100**	**110**	**120**	**130**	**140**
-40	Btu/h	4930	2860	1620	967	635	366	
	Watts	1330	913	682	576	529	475	350
	Amps	7.70	6.72	6.21	6.00	5.91	5.76	5.38
	Lb/h	79.3	45.9	26.0	15.5	10.2	5.88	
-35	Btu/h	5330	3250	2020	1360	1020	751	285
	Watts	1460	1030	792	683	635	585	466
	Amps	8.00	6.95	6.40	6.15	6.04	5.89	5.52
	Lb/h	85.7	52.3	32.4	21.8	16.4	12.1	4.57
-30	Btu/h	5890	3810	2560	1900	1560	1280	806
	Watts	1590	1150	909	797	750	704	591
	Amps	8.37	7.26	6.66	6.39	6.26	6.11	5.76
	Lb/h	94.7	61.2	41.2	30.5	25.0	20.6	13.0
-25	Btu/h	6590	4500	3250	2580	2220	1940	1450
	Watts	1720	1280	1030	918	873	830	725
	Amps	8.79	7.63	6.99	6.69	6.56	6.41	6.08
	Lb/h	106	72.4	52.2	41.4	35.8	31.1	23.3
-20	Btu/h	7420	5320	4050	3370	3000	2700	2200
	Watts	1860	1410	1160	1050	1000	964	867
	Amps	9.25	8.04	7.37	7.05	6.92	6.78	6.47
	Lb/h	119	85.6	65.2	54.2	48.3	43.5	35.5
-15	Btu/h	8360	6240	4960	4260	3880	3560	3040
	Watts	2000	1550	1290	1180	1140	1100	1020
	Amps	9.76	8.51	7.80	7.47	7.33	7.21	6.93
	Lb/h	135	101	79.9	68.6	62.5	57.3	49.1
-10	Btu/h	9390	7250	5950	5230	4830	4490	3960
	Watts	2150	1680	1430	1310	1280	1250	1170
	Amps	10.3	9.00	8.27	7.93	7.79	7.69	7.45
	Lb/h	151	117	96.0	84.4	77.9	72.5	63.8
-5	Btu/h	10500	8330	7010	6270	5840	5480	4920
	Watts	2290	1820	1570	1450	1420	1400	1330
	Amps	10.8	9.52	8.77	8.42	8.30	8.22	8.01
	Lb/h	169	135	113	101	94.4	88.6	79.5

0	Btu/h	11700	9470	8120	7350	6900	6510	5930
	Watts	2440	1970	1710	1590	1570	1550	1500
	Amps	11.4	10.0	9.28	8.94	8.82	8.78	8.61
	Lb/h	188	153	131	119	112	105	95.9
5	Btu/h	12900	10600	9270	8470	7990	7570	6960
	Watts	2580	2110	1850	1740	1710	1710	1660
	Amps	12.0	10.6	9.81	9.47	9.37	9.36	9.24
	Lb/h	208	172	150	137	129	123	113
10	Btu/h	14100	11800	10400	9600	9080	8630	7980
	Watts	2730	2250	1990	1880	1860	1870	1840
	Amps	12.5	11.1	10.3	10.0	9.93	9.95	9.89
	Lb/h	228	192	169	156	147	140	130

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	9.020340E+04	2.176100E+04	6.479135E+01	1.453448E+03
C2	2.782918E+02	5.732903E+01	2.622689E-01	4.553609E+00
C3	-1.970339E+03	-4.924471E+02	-1.352324E+00	-3.173470E+01
C4	1.339598E+00	-1.176998E-01	-7.248394E-04	2.329257E-02
C5	-4.927879E-01	-5.941900E-01	-3.036124E-03	-8.091758E-03
C6	1.579788E+01	4.007364E+00	1.092095E-02	2.544412E-01
C7	-2.280877E-02	-1.168198E-03	-1.219545E-05	-3.553088E-04
C8	-6.601363E-03	1.338025E-03	9.306571E-06	-1.093861E-04
C9	-2.839118E-04	3.019166E-03	1.459895E-05	-4.902461E-06
C10	-4.302681E-02	-1.088424E-02	-2.948462E-05	-6.930432E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature